



June 22, 2015

Mr. Jim Marxen
Deputy Director
Department of Toxic Substances Control
1001 I Street
Sacramento, CA 95812-0806

Subject: Exide Corporation Site, Community Advisory Group Assistance

Dear Mr. Marxen:

This letter, and our enclosed Statement of Qualifications (SOQ) is being provided to express our interest in serving as a technical advisor to the community impacted by the Exide Corporation Site (Exide), as part of the joint effort by the Department of Toxic Substance Control (DTSC) and the South Coast Air Quality Management District (SCAQMD) to provide such an advisor. We believe that our experience and qualifications discussed below, and in our enclosed SOQ, provide unique benefits to both the community, and both agencies. Our staff has a wealth of experience with the following key services:

- Public Participation, Community Advisory Groups, and Environmental Justice Issues
- Risk Assessment, Risk Management, and Risk Communication
- Resource Conservation and Recovery Act (RCRA) Compliance and Corrective Action
- Brownfields Investigation and Remediation
- Land Use Compatibility
- California Environmental Quality Act (CEQA) EIRs and Mitigation Monitoring
- Spanish Translation of Technical Issues, and Bilingual Staff

Our experience ranges from preparing simple Fact Sheets and public notices, to organizing and participating as members, and technical educators in high profile Community Advisory Groups. We have organized and led public meetings, public workshops, small community focus groups, and have worked with various public interest entities. We have also conducted community surveys, and have met one on one with concerned community members. We have worked in many southern California communities on projects with environmental justice issues including the Cities of Los Angeles, Cudahy, Montebello, Bell Gardens, Wilmington, San Diego (Barrio Logan), San Bernardino, and the Harbor Gateway area.

Because Staff at PlaceWorks has direct experience managing projects on many sites where contamination has migrated offsite into the community, we understand community concerns, and the need for accurate and frequent communication. We are skilled at translating complex scientific findings, and communicating them into simple to understand concepts for the layperson. We have worked on some of the most sensitive sites in southern California with respect to the potential for direct impacts from contamination to children.

PlaceWorks staff has experience with both Brownfields Investigation and Remediation, and RCRA Enforcement and Corrective Action projects. Staff has prepared enforcement orders, and is very familiar with DTSC's enforcement process. We are also very familiar with the requirements for companies who generate, treat, store, or transport hazardous waste and hazardous substances. In addition to compliance



issues, staff has experience with investigation and remediation of RCRA Corrective Action and Brownfields sites, including DTSC's closure process and requirements.

In addition to our DTSC related investigation and remediation experience, we have the unique combination of experience whereby we have developed land-use compatibility studies that have evaluated the environmental impacts of industry on neighboring residential areas. We also have experience preparing Environmental Impact Reports, and developing and monitoring mitigation activities associated with impacts identified in such reports. Our knowledge and experience will provide a unique resource to the community advisory group as remediation progresses, and environmental impacts in addition to those from hazardous substance contamination are evaluated and monitored.

Peter Garcia will be the lead scientist and communicator for the project, and will be supported by our professional engineering and geology staff, and other project related disciplines as necessary, including bilingual staff (Spanish). Peter has conversational knowledge of the Spanish language which will be a benefit based on community demographics. Detailed staff resumes are attached to our SOQ.

We look forward to an opportunity to work with the community and its representatives by becoming a trusted resource, and providing sound interpretation of technical information in easy to understand formats. If you have any questions please contact Peter Garcia at (909) 989-4449.

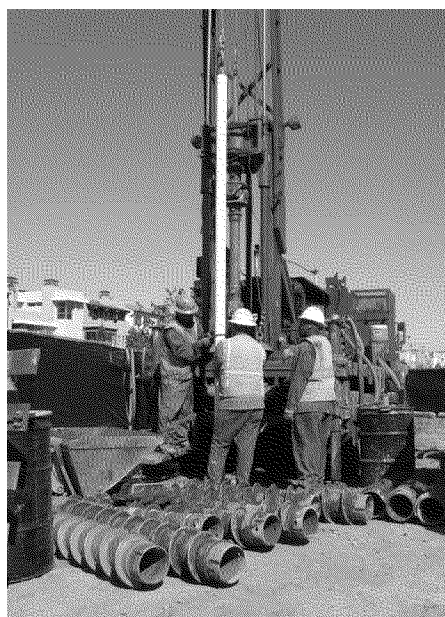
Sincerely,

PLACEWORKS

A handwritten signature in black ink, appearing to read "Peter A. Garcia".

Peter A. Garcia
Associate Principal

Enclosure



QUALIFICATIONS

Environmental Science & Engineering

JUNE 22, 2015

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WHO WE ARE



Who We Are

The Planning Center was founded in 1975 as a private consulting firm devoted to developing viable, imaginative planning solutions to the physical, social, economic, and environmental challenges that arise from urbanization. Design, Community & Environment (DC&E) was founded in 1995 to offer high-quality, personalized, and comprehensive planning, design, and environmental review services. In March 2011, these two highly respected firms merged and became The Planning Center|DC&E, then in March 2014, we changed our name to PlaceWorks.

In 2006, PlaceWorks acquired the Los Angeles-based Meredith and Associates, founded in 1981. M&A brought significant technical depth to the firm with its wide range of scientific, engineering, and regulatory services, especially those concerning the effects of hazardous materials and wastes on human health and the environment. This core of scientists and engineers became the firm's Los Angeles office and now functions as the Environmental Science and Engineering (ES&E) Group.

The combined company has over 100 employees in six offices, and serves both public- and private-sector clients in the fields of environmental review, environmental science and engineering, comprehensive planning, and landscape architecture. PlaceWorks believes that the best planning reflects the community it serves and works in concert with the surrounding natural environment.

OFFICE LOCATIONS

ORANGE COUNTY
Corporate Headquarters
3 MacArthur Place
Suite 1100
Santa Ana, CA 92707
714.966.9220

LOS ANGELES/WEST
9841 Airport Boulevard
Suite 1010
Los Angeles, CA 90045
310.670.9221

INLAND EMPIRE
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764
909.989.4449

LOS ANGELES/DOWNTOWN
949 S. Hope Street
Suite 100
Los Angeles, CA 90015
213.623.1443

SAN DIEGO
501 W. Broadway
Suite 800
San Diego, CA 92101
619.400.4965

NORTHERN CALIFORNIA
1625 Shattuck Avenue
Suite 300
Berkeley, CA 94709
510.848.3815

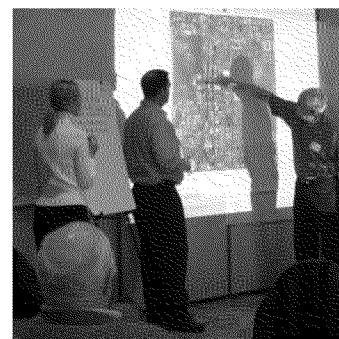


WHAT PLACEWORKS OFFERS

The breadth of our environmental consulting services is outlined below.

- » **Site Investigation/DTSC Compliance**
 - Phase I and Phase II Environmental Site Assessments (ESAs)
 - Preliminary Environmental Assessments (PEAs)
 - Remedial Investigation/Feasibility Studies (RI/FS)
 - Environmental Information Management
 - Geologic/Hydrologic Characterization
 - Soil, Soil Vapor, and Groundwater Sampling & Assessment
- » **Remedial Engineering Design**
 - Feasibility Studies
 - Remedial Action and Removal Action Plans, and Closure Reports
 - Methane Mitigation Design & Engineering
 - Remedial Program Design, Implementation & Monitoring
- » **Risk Assessments**
 - Health Risk Assessments (Toxic Air Emissions)
 - Geohazard Studies
 - Railroad Risk Studies
 - Pipeline/Water Storage Tank Risk Studies
 - Dam Inundation Studies
 - EMF (Electro Magnetic Field) Management Plans
- » **Regulatory Compliance and Safety**
 - Lead-Based Paint, Asbestos, and Mold Inspection/Mitigation
 - Facility/Site Audits
 - Permits/Approvals Acquisition
 - Hazardous Waste Characterization and Management
 - SWPPPs/WQMPs
 - SPCCPs
 - NPDES Monitoring and Permits
 - Air Permits
 - CDFG/USACE Permitting
 - Regulatory Agency Interface and Strategy
- » **Additional Technical Analysis**
 - Air Quality Assessments and Dispersion Modeling
 - Greenhouse Gas Evaluations
 - Climate Action Plans/Greenhouse Gas Reduction Plans
 - Noise Assessments, Mapping and Monitoring
 - Vibration Assessments
 - Hydrology Studies
 - Water Quality Studies
 - Biological Resource Assessments/Permits
 - Light and Glare Studies
 - Visual Impacts/Simulations

- » **California Environmental Quality Act Documentation**
 - Environmental Impact Reports (EIRs)
 - Mitigated Negative Declarations (MNDs)
 - Exemptions
 - Mitigation Monitoring Programs
 - Findings/Resolutions
 - Third-Party CEQA Adequacy Review
 - Litigation Support
- » **National Environmental Policy Act (NEPA) Documentation**
 - Environmental Impact Statements (EISs)
 - Environmental Assessments (EAs)
 - Findings of No Significant Impact (FONSI)s
- » **Support Services**
 - Entitlement Processing
 - General Plan Amendments
 - Zoning Changes
 - Conditional Use Permits
 - Master Planning
 - Feasibility Studies
 - Site Planning and Design
 - Grading/Feasibility Studies
 - Geographic Information System (GIS) Mapping
 - Demographic Studies and Reports
 - Community Outreach/Public Participation
 - Hearing Coordination and Support
 - Graphics/Media Support
 - Spanish Interpreters/Translation
 - CEQA Scoping Meetings
 - Staff Services, On-Call/Temporary Staff Placement



In addition, PlaceWorks can assist with a variety of planning and design needs:

- » **Comprehensive Planning**
 - Policy and general plan preparation
 - Policy and regulatory specific plan preparation
 - Regional planning
 - Corridor planning
 - Housing elements
 - Healthy communities
 - Land use planning
 - Site planning
 - Grading/feasibility studies
 - Landscape architecture
 - Design guidelines
 - Redevelopment and rehabilitation plans

» **Economic and Financial Services**

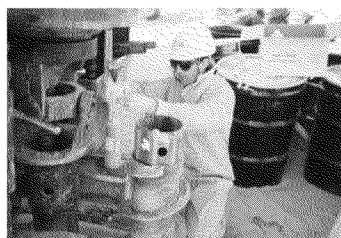
- Economic & Market Analysis
- Economic Development Planning
- Site Development
- Fiscal & Financial Analysis

SITE ASSESSMENT AND REMEDIATION



PlaceWorks offers services that combine site assessment and environmental engineering. Our staff is expert in a variety of fields and includes environmental scientists and licensed professional engineers and geologists.

PlaceWorks has prepared hundreds of Phase I ESAs, ranging from relatively routine property screenings to real estate due diligence programs associated with billion-dollar corporate mergers. We have been very successful at negotiating on Phase Is and PEAs to avoid unnecessary sampling and work.



In some instances, the historical use of a particular site, its proposed future use, or direct or indirect environmental evidence may warrant further screening. Different regulatory agencies use different names for these assessments: Phase II ESA and Preliminary Environmental Assessment or Preliminary Endangerment Assessment (both PEA) are the most common.

During the past 20-plus years, PlaceWorks has completed hundreds of Phase II and PEA investigations of varying sizes and scopes. We have negotiated numerous favorable investigations, remediation and PEA work plans, and final reports. Our technical staff are conversant with routine site assessment techniques and more innovative techniques, such as noninvasive geophysical methods, passive diffusion bag groundwater sampling, and emission flux sampling.

REMEDIATION INVESTIGATION/FEASIBILITY STUDIES (RI/FS), REMEDIAL ACTION PLANS (RAP), AND REMOVAL ACTION WORKPLANS (RAW)

RIs are undertaken to determine the nature and extent of a hazardous material release and generally emphasize data collection through sampling and monitoring and site characterization. RIs are generally performed concurrently and interactively with FSs, which develop and evaluate options for remedial actions.

RAPs guide the cleanup of contaminated soil or groundwater to an acceptable state, generally as determined by a health risk assessment. A RAW is allowed for a remediation program that is expected to cost less than \$2 million.

PlaceWorks understands the strengths and limitations of remedial technologies and relies on numerous tools to provide innovative, practical, and cost-effective

solutions— risk assessment, modeling, treatability studies, negotiation, and practical know-how. Our ability to understand and apply regulatory and political closure requirements and to succinctly describe complex data sets allows us to prepare closure documents that are understandable, compliant, and trusted by local regulators and communities.

METHANE GAS MITIGATION

Methane is an emerging issue and PlaceWorks strives to provide simple and effective solutions. We have conducted numerous methane monitoring surveys, and we have the necessary in-house sampling and analytical equipment to mount a cost-effective methane testing program. PlaceWorks has isolated methane and hydrogen sulfide sources associated with sewage leaks and abandoned oil wells. Using the survey data, senior professionals work closely with the building managers to develop an action plan to remedy or mitigate any potential risks detected by the survey. Postconstruction monitoring is an integral part of our practice in this service area. Learn more at www.MethaneTesting.org.

REGULATORY AGENCY COORDINATION AND REVIEW OF ENVIRONMENTAL DOCUMENTS

Over the years, we have developed professional and personal working relationships with numerous agency personnel, which helps ensure successful outcomes for our clients. Our expertise is acknowledged by these agencies—we occasionally receive agency referrals and our staff has been asked to serve on advisory technical panels during the formulation of new or revised agency guidelines.

Our relationships with and knowledge of the DTSC, Regional Water Quality Control Boards, US Environmental Protection Agency, and various agencies and air quality management districts uniquely qualify us to assist clients during negotiations and coordination efforts.

PUBLIC HEALTH AND RISK ASSESSMENT

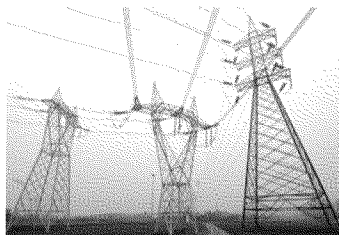
PlaceWorks is unique in its ability to complete a full range of environmental and health risk assessments needed to gain approvals for California schools. We have assisted school districts and charter organizations receive school site approval from the California Department of Education and Department of Toxic Substances Control.

Our environmental scientists combine site assessment and environmental engineering to span all kinds of risk assessment. We have licensed and/or certified engineers, geologists, hydrogeologists, and engineering geologists. We know the laws about hazards backwards and forwards—in fact, we wrote some

PlaceWorks Helps Client Win \$2.5 Million

A school district turned to PlaceWorks to prepare a remedial action plan (RAP) and remedial design document (RDD) for 37 areas of shallow impacted soil, one large area of imported fill, and one deep excavation. The firm oversaw the successful completion of the remedial activities, and the Department of Toxic Substances Control approved the site for school construction.

PlaceWorks developed a detailed cost analysis to establish damages and delivered presentations at two negotiation sessions that explained how historical operations at the former plastics manufacturing facility had impacted the school site. In the end, the adjacent property owner accepted liability and agreed to pay the district \$2.5 million to cover costs of the remediation. The new high school, which is expected to open in September 2013, is eagerly anticipated by the surrounding community.



SCAQMD Grant

PlaceWorks was awarded a grant for research from the South Coast Air Quality Management District. The research will entail modeling air quality around busy roadways to determine the most cost-effective mitigation measures to protect residential and other sensitive uses. Such modeling could be a promising new tool for agencies to address the increasing interface between air toxics generators and sensitive uses. It presents an opportunity to find ways to minimize the harm from more people being exposed to greater amounts of air pollution as a result of smart growth policies, planned expansion of West Coast

of them. We are not only intimately familiar with routine site assessment techniques, we are conversant with the most innovative techniques. And if there is no technique to handle a certain problem at a certain site, we create one. That's the benefit of more than 30 years of experience.

AIR TOXICS HEALTH RISK ASSESSMENT

As California builds out, conflicts between sensitive uses (residential, schools, open space and parks) and major pollutant sources (freeways, rail yards, distribution centers, ports, and refineries) have become more frequent. As a result, air toxics and land use compatibility assessment is a growing area in environmental analysis. PlaceWorks has a solid track record in this specialty area of air toxics assessment. Our health risk professionals know current EPA and state risk assessment protocols and use the most recent data for specific contaminants. Typically in conjunction with proposed real estate development, an air toxics assessment report incorporates an inventory of air emissions, anticipated ambient air concentrations, population exposure, and the resulting health risk. We are currently contracted with several jurisdictions to conduct air toxics studies to determine appropriate setbacks from pollutant sources or mitigation measures (e.g., special filters) when setbacks are not feasible. Our risk assessments are based on defensible, site-specific information and assumptions that are not overly conservative, but still protect public health.

PIPELINE RISK STUDIES

Vulnerability assessment is a rapidly evolving discipline that builds upon more traditional risk identification and management methodologies. With heightened awareness about the potential safety and health risk posed by chemical plants, refineries, and petroleum storage and transportation facilities, PlaceWorks has conducted numerous pipeline safety risk assessments for proposed school facilities. We have also identified potential chemical hazards and investigated the overall risk to exposed populations through probability analysis, consequence analysis, fault tree/event tree analysis, and health risk assessment. We have also examined the risk posed by the various modes used to transport chemicals (e.g., rail, pipeline, and highway). PlaceWorks employs various computer models to assist with the safety risk assessment, including ARCHIE, CAMEO, and SLAB. We have conducted more than 100 pipeline safety studies in recent years.

RAIL RISK STUDIES

PlaceWorks has conducted dozens of rail safety studies to evaluate actual or potential endangerment to school occupants from an accident or derailment. The steps include 1) conducting a site reconnaissance during school hours to determine rail traffic, type of cargo, train speed, and highway-rail crossings, 2)

calculating the probability of an accident or derailment on the rail line within a 1,500-foot radius from the school, and 3) modifying the accident/derailment probability to take into account site-specific conditions, including accident data from the railroad owner/operator, school frontage, and the probability that the students would be in school when an accident occurs.

If the calculated risk is significant, mitigation measures, such as an engineered barrier wall or a setback of school structures from the property line, typically are required. PlaceWorks has been instrumental in developing barrier-wall design criteria and evaluating the ability of a barrier wall to absorb the collision energy of a derailed locomotive or train.

AIR QUALITY, GREENHOUSE GAS EMISSIONS, AND CLIMATE CHANGE PLANNING

PlaceWorks stays on top of the emerging field of climate planning. Our staff are members of the Association of Environmental Professionals' (AEP) Climate Change Committee. Our technical staff has assisted numerous clients to meet the air quality and GHG modeling needs for environmental processing under CEQA and the National Environmental Quality Act (NEPA). We can draw from our broad experience and understanding to customize the approach to air quality and GHG emissions modeling. We also have a strong technical grasp of modeling tools and protocols available for quantifying air quality and GHG emissions, including CalEEMod, EMFAC, ISCST3, AERMOD, Off-Road, Caline, and WARM models and data from the California Energy Commission, the California Air Resources Board, and the Energy Information Administration. In fact, we beta-tested the South Coast Air Quality Management District's CalEEMod emissions inventory model, which replaced the URBEMIS2007 model. PlaceWorks' technical staff has presented at conferences for the Association of Environmental Professionals, Urban Land Institute, Bowie Arneson, and other organizations. In addition, we assisted in the development of CEQA GHG significance thresholds for the San Joaquin Valley Air Pollution Control District.

PlaceWorks' air quality and greenhouse gas (GHG) technical staff is involved in nearly every one of our planning and environmental projects. They have extensive knowledge of the CEQA regulatory process and impact assessment methodology established by the EPA, the South Coast Air Quality Management District, and other air quality management districts. We stay on top of these changing fields so our air quality and GHG analyses successfully withstand challenge.



- » Air Quality and Greenhouse Gas Emission Inventories
- » Rule 9510 Air Impact Assessments (AIA)
- » Localized Dispersion Modeling
- » Health Risk Assessments
- » Air Pollution Permits
- » Climate Action/ Greenhouse Gas Reduction Plans
- » CO Hot Spot Analyses
- » Odor Analyses
- » Air Quality Conformity Reports
- » Vapor Intrusion Analyses
- » Third-Party Environmental Adequacy Reviews

BIOLOGICAL RESOURCES ANALYSES

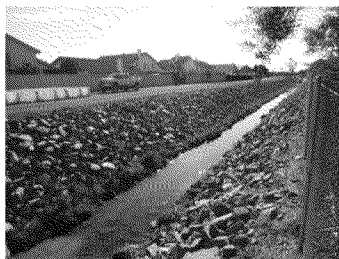


PlaceWorks can provide general biological resources surveys on project sites and focused surveys for sensitive species of rodents. Our in-house biologist holds permits from federal and/or state agencies to carry out focused surveys for Stephens' kangaroo rat, San Bernardino kangaroo rat, Pacific pocket mouse, and Mohave ground squirrel, as well as memorandums of understanding for most sensitive small mammals.

GEOLOGY AND SOILS ASSESSMENTS

Our professionally licensed geologists frequently supplement analyses with expert input on projects with geophysical challenges. The range of specialized, in-house expertise is diverse, embracing various aspects of hydrogeology, slope stability, contaminant fate and migration, aerial photograph review and interpretation, erosion control, and grading.

HYDROLOGY AND WATER QUALITY STUDIES



PlaceWorks has qualified stormwater pollution prevention plan developers and practitioners (QSD/QSPs). Our services include:

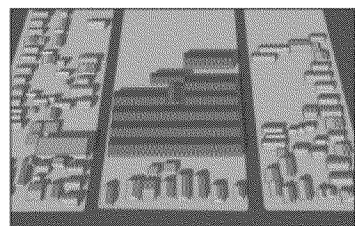
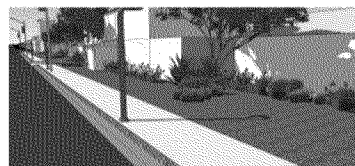
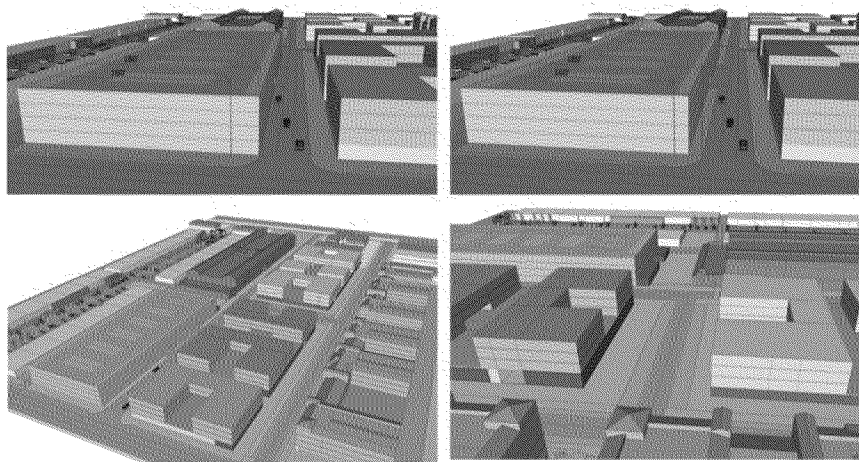
- » Prepare stormwater pollution prevention plans (SWPPPs)
- » Prepare water quality management plans (WQMPs)
- » Prepare water supply assessments
- » Develop postconstruction stormwater operation and maintenance plans
- » Integrate low impact development (LID) and best management practices (BMPs) into site design
- » Conduct stormwater runoff modeling: pre- and postdevelopment conditions

- » Review hydrology reports prepared by other consultants and integrate their findings into sections of EIRs
- » Determine reductions in peak flow rates with implementation of site LIDs and BMPs
- » Storm sewer system design for projects of 10 acres or less

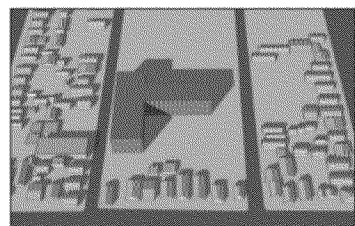
VISUAL SIMULATIONS

PlaceWorks has skilled staff who prepare graphics for visual impact analyses that help identify opportunities and constraints of existing conditions and proposed projects, both onsite and in the surrounding environment. Physical changes to an area as a result of proposed project alternatives, and the resulting change in appearance, are identified, documented, and assessed in terms of their visual impact. Field studies are also conducted to determine potentially affected viewer groups within and near the project limits. Visual simulations and graphics are used to assess the potential visual impacts of the project, including any blocking or disruption of scenic views or vistas, damage or removal of any recognized scenic resources, substantially altered visual quality or visual character within the project limits, or creation of a substantial new source of light or glare.

- » Shade and shadow analyses
- » Digital 3D modeling and animations of topographic grading, buildings, streets, and landscapes
- » Photorealistic and rendered view simulations

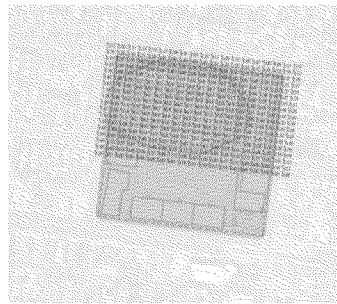
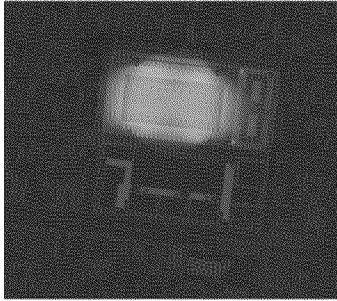


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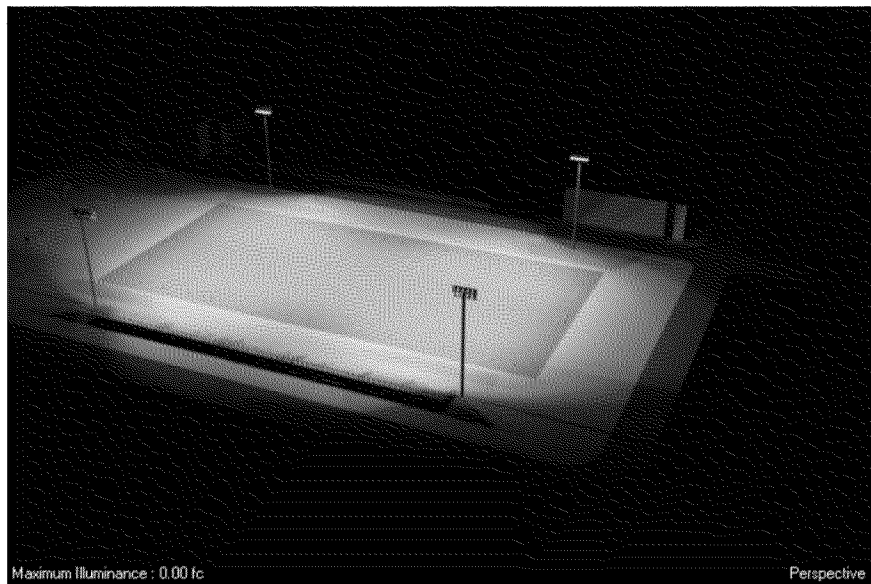


Proposed 2:00 PM

LIGHTING ASSESSMENTS

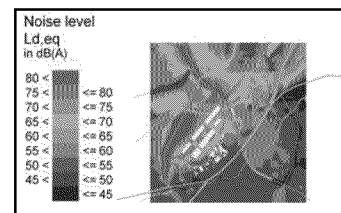


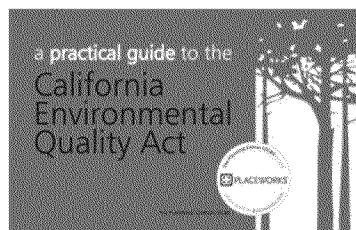
PlaceWorks uses Autodesk® 3ds Max® 2010 software to generate the point-by-point calculated illumination levels in foot-candles on and adjacent to proposed athletic fields. Lighting contour lines are superimposed over the site plan and aerial of adjacent areas to show calculated light levels across the athletic field and potential glare impacts at nearby sensitive land uses. The software also generates simulations of projected light levels. The inputs to the calculations include the type lamps, height and location of poles, proposed aiming angle, beam type, light hoods or louvers, and distances to surrounding sensitive uses.



NOISE AND VIBRATION ASSESSMENTS

PlaceWorks uses the SoundPlan Model to assess noise levels and display the results in noise contours. This model takes into account varying terrain types, building attenuation, and other factors. The resulting color-coded contour map is far more informative than tables of results, which do not show the geographic extent of the generated noise. The noise contours developed by this model illustrate the magnitude of noise levels as well as the area of exposure at the surrounding noise-sensitive residences.





PlaceWorks and CEQA Practical Guide

CEQA Practical Guide: Similar to NEPA, the California Environmental Quality Act is difficult to comprehend in both its procedural and substantive requirements. It's the proverbial difficulty of "seeing the forest for the trees." The intent of the CEQA Guide is to provide an overview of CEQA that is easily understood by the lay public and decision makers. The text is written in a direct, down-to-earth style with a bit of levity thrown in. While the CEQA Guide is the main tool, we view it as one part of the educational process. Diagrams from the Guide are employed in many presentations on CEQA in public forums, such as scoping meetings, workshops, classes and hearings. The CEQA Guide has been used as a textbook for courses taught at the University of Southern California, University of California, Riverside, and University of California, Irvine.

ENVIRONMENTAL ANALYSIS (CEQA/NEPA)

Environmental analysis is not simply the accounting of impacts, but should address serious environmental concerns and find opportunities to solve problems. PlaceWorks' approach to environmental studies combines problem solving, accuracy, and attention to detail. Each project is a new challenge that requires unique solutions. Even projects that share common elements benefit from a fresh evaluation. We take a creative approach to our projects, considering each one objectively and using all our experience and imagination to formulate plans and programs that are workable.

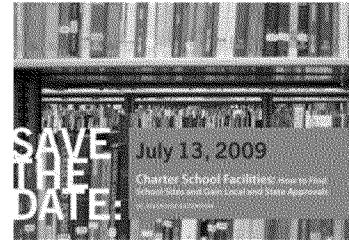
ENVIRONMENTAL COURSES

Staff at PlaceWorks lecture and teach courses on environmental planning, sustainable planning, and school planning at colleges and universities throughout the state.

- » **CEQA/NEPA Training, Various Institutions and Planning Organizations.**
Tailored to the needs of each audience, PlaceWorks staff provides CEQA instruction to colleges and universities, local jurisdictions and other public agencies, and professional organizations. Audiences have included the University of California, Irvine and Davis; California State University, Fullerton; Chapman University; Association of Environmental Professionals; American Planning Association; and the Building Institute of America.
- » **Policy Planning, Sustainable Planning, and Other Design Courses, University of California, Davis.**
PlaceWorks staff teaches courses on a wide variety of sustainable planning and design topics at the University of California, Davis. Recent courses include: "Planning, Environmental Site Design, & Development," "Site Planning for Creeks, Riparian Corridors, and Wetlands," and "General Plans."
- » **A Practical Guide for Obtaining Environmental Clearance for New & Expanding School Sites, UC Riverside Extension Educational Facilities Certificate Program.**
This course provides a review of the latest procedural and substantive requirements of the California Environmental Quality Act (CEQA), California Department of Education (CDE), and Department of Toxic Substances Control (DTSC) for school facilities planning.

- » Charter School Facilities: How to Find School Sites and Gain Local and State Approvals, UC Riverside Extension Educational Facilities Certificate Program.

Designed for charter school principals, administrators, teachers, and parents interested in starting a new school or expanding existing facilities, this course discusses facilities procurement and provides an overall understanding of this often complicated process.



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KEY STAFF



Key Staff

PlaceWorks' environmental consulting practice encompasses a broad array of services for public agencies and private enterprise. The engineers, geologists, scientists, and public health experts of our Engineering and Science Group (ESG) bring considerable **knowledge** and expertise for the challenges of our evolving communities. **Notable** experience of key team members is summarized below.

**William C. Hass, PE**

Principal, Environmental Science & Engineering

Office(s): Los Angeles/West

Contact: 310.670.9221 ext. 24 | whass@placeworks.com

Expertise: Environmental assessments, site investigation, remedial engineering, methane mitigation

Experience: 30 years of technical and management experience in site assessments, hazardous substances and operations audits, invasive site investigations, risk assessments, regulatory analysis, and feasibility studies

Education: MPA, Public Policy & Management, School of Planning & Urban Studies, University of Southern California
BS, Engineering, College of Engineering, South Dakota State University

Registrations: State of California Professional Engineer No. C033772

**Peter A. Garcia**

Associate Principal

Office(s): Ontario, Los Angeles/West

Contact: 909.989.4449 ext. 201 | pgarcia@placeworks.com

Expertise: Environmental assessments, health risk assessments, site assessments

Experience: 26 years' experience with Comprehensive Environmental Response Compensation & Liability Act, Resource Conservation & Recovery Act, California Environmental Quality Act, brownfield sites, and sensitive land-use projects; former manager Southern California operations for DTSC's School Division

Education: BS, Biology, Loyola Marymount University, 1989

Activities: Speaker at CASH Workshops

Publications: "Taking Charge of Site Assessment," *CASH Register*, July 2008

**Denise Clendening, PhD**

Associate Principal

Office(s): Ontario

Contact: 909.989.4449 ext. 200 | dclendening@placeworks.com

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- Expertise:** Environmental assessments, health risk assessments, site assessments
- Experience:** Over 27 years of experience providing technical oversight and performing human health risk assessments, site assessments, and investigations of chemical waste
- Education:** PhD, Soil Physics, University of California, Riverside
MS, Soil Science, University of California, Riverside
BS, Geology, University of California, Riverside
- Certifications:** Oil Spill Response Training
- Activities:** Presenter, CASH workshops; Lecturer at UC Riverside Extension's Certificate in Educational Facilities Planning Program

**Ronald Cavagrotti, DEnv**

Senior Scientist

Office(s): Los Angeles/West

Contact: 670.310.9221 ext. 45 | rcavagrotti@placeworks.com

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- Expertise:** Regulatory compliance, site investigation, environmental assessments, health risk assessments, remedial engineering, school planning
- Experience:** 30 years in site investigations and remediation, regulatory analysis, technical studies, risk assessment, environmental compliance, and permit preparation
- Education:** DEnv, Environmental Science & Engineering, University of California, Los Angeles
MPH, Environmental Health Sciences/School of Public Health, University of California, Los Angeles
BS, Zoology, Duke University, 1975
- Activities:** Instrumental in gaining highest rating for complex site assessment projects in LAUSD Audit

**Cathleen Fitzgerald, DEnv, PE, QSD/QSP**

Senior Engineer

Office(s): Reno Field Office, Los Angeles/West

Contact: 775.853.8503 | cfitzgerald@placeworks.com

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- Expertise:** Health Risk Assessments, Pipeline Safety Hazard Assessments, EMF Management Plans, Storm Water Pollution Prevention Plans, hazardous waste site investigations, groundwater and soil vapor extraction systems
- Experience:** 30 years in Environment Science and Engineering
- Education:** DEnv, Environmental Science and Engineering, University of California, Los Angeles
MA, Marine Biology, University of California, Santa Barbara
BA, Biology, University of California, Los Angeles
- Registrations:** Registered Professional Engineer, California and Nevada; Qualified SWPPP Developer / Qualified SWPPP Practitioner; Certified Environmental Manager, Nevada
- Activities:** CDE Working Group on Pipeline Safety Hazard Assessment Protocol; speaker at workshops and conferences on risk management, hydrology, and stormwater; Grant with SCAQMD for Roadway Pollution Mitigation Measures; Energy Management Certification
- Publications:** "A Practical Guide to Environmental Risk," The Planning Center, 2009



Stuart R. Michener, PG
Senior Geologist

Office(s): Los Angeles/West
Contact: 310.670.9221 ext. 21 | smichener@placeworks.com

- Expertise:** Site investigation, remedial engineering, regulatory compliance, geology
- Experience:** Almost 30 years of due diligence for property transactions, environmental site assessments, soil and groundwater cleanups, and regulatory negotiations
- Education:** MS, Geology, University of Massachusetts, Amherst
BA, Environmental Studies, Colby College
Graduate coursework in Hydrogeology, Waste Management Program, Colorado School of Mines, Golden
- Registrations:** California Professional Geologist No. 6145
- Activities:** "Screening and Securing Safe and Healthy School Facilities: The Top Ten Factors" (with Mike Vail) conference session and *PlaceViews* (newsletter)



Karl H. Rodenbaugh, DEnv
Senior Scientist

Office(s): Los Angeles/West
Contact: 310.670.9221 ext. 23 | krodanbaugh@placeworks.com

- Expertise:** Regulatory compliance, permitting, site investigation, health risk assessments, 3rd party review
- Experience:** Served Long Beach Unified School District as lead environmental consultant for past six years
25 years building a broad, interdisciplinary understanding of environmental science, natural resources, and regulatory compliance issues
- Education:** DEnv, Environmental Science and Engineering, University of California, Los Angeles
MPH, Environmental Health Sciences, University of California, Los Angeles
BS, Biology, University of California, Riverside, 1976
- Publications:** *Siting Electric Generation and Transmission Facilities: A Guide to Securing Federal, State and Local Approvals*; *Environmental Compliance Manual* (Bank of America)



Carl Lotzgesell, CSST
Associate Geologist

Office(s): Los Angeles/West
Contact: 310.670.9221 ext. 20 | clotzgesell@placeworks.com

- Expertise:** Site investigation, geology, soil, asbestos
- Experience:** Over 15 years of physical site investigations at school sites, commercial and industrial properties
- Education:** BS, Geological Sciences, California State University, Long Beach
- Certifications:** Hazardous Waste Health and Safety Supervisor Training, 8 CCR 5192
Hazardous Waste Site Operation Health and Safety Training, 29 CFR 1910-120
8-Hour HAZWOPER
Certified Site Surveillance Technician—Asbestos, Title 8 CCR 314.15(h)
CPR/First Aid Certification

**Michael J. Watson, PG**

Associate Geologist

Office(s): Ontario

Contact: 909.989.4449 ext. 206 | mwatson@placeworks.com

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- Expertise:** Site assessments, regulatory compliance, risk assessments, geology
- Experience:** 10 years of site assessments, geohazard studies, air quality and industrial hygiene assessments, groundwater investigations, and remedial actions
- Education:** BS, Geology, University of California, Riverside
- Registrations:** California Professional Geologist No. 8177
- Certifications:** 40-Hour Hazardous Waste Workers (HAZWOPER) Certification
24-Hour First Responders Certification
8-Hour HAZWOPER Refresher Certification
CPR/First Aid Certification
NITON X-ray Fluorescence (XRF) Analyzer Certification

**Steven Bush, PE**

Project Engineer

Office(s): Los Angeles/West

Contact: 310.670.9221 ext.13 | sbush@placeworks.com

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- Expertise:** Environmental assessments, health risk assessments, air quality/GHG modeling and analyses, CEQA analysis, site investigation
- Experience:** 5 years environmental science analysis and CEQA studies
- Education:** MS, Chemical Engineering, University of California, Los Angeles
BS, Chemical Engineering, University of California, Santa Barbara
- Certifications:** Engineer in Training
40 Hour HAZWOPER
CPR and First Aid
- Articles:** "Identification of subwatershed sources for chlorinated pesticides and polychlorinated biphenyls in the Ballona Creek watershed," *Science of The Total Environment* 403, no. 13 (2011): 2525–33
With M. Philibert, F. L. Rosario-Ortiz, and I. H. Suffet, "Advances in the characterization of the polarity of DOM under ambient water quality conditions using the polarity rapid assessment method," *Water Science & Technology: Water Supply* 8, no. 6 (2008): 725–733



Dwayne Mears, AICP
Principal

Office(s): Santa Ana, Los Angeles/West
Contact: 714.966.9220 ext. 316 | dmears@placeworks.com

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- Expertise:** Environmental Planning (CEQA/NEPA), Title 5, DTSC
- Experience:** 30 years environmental planning, covering industrial, commercial, residential, infrastructure, mixed use, schools, parks, general plans and specific plans
- Education:** MRP, City & Regional Planning, University of North Carolina, Chapel Hill
BS, City & Regional Planning, Cal Poly, San Luis Obispo
- Activities:** CDE-SFPD Advisory Committee; Torlakson "Schools of the Future" Advisory Team; speaker at CASH/CASBO/CCFC/CCSA Workshops; Instructor, UC Riverside Extension, "Gaining Environmental Clearance for Schools"
- Publications:** *California School Facility Planning* (contributing author), Solano Press; "A Practical Guide to CEQA," PlaceWorks, 2012; numerous articles on school facilities planning



Nicole Vermilion
Manager, Air Quality/Greenhouse Gas

Office(s): Santa Ana
Contact: 714.966.9220 ext. 344 | nvermilion@placeworks.com

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- Expertise:** Air Quality and Greenhouse Gas Analysis, Noise Monitoring, CEQA/NEPA Compliance
- Experience:** Over seven years of preparing EIRs; air quality GHG, and noise technical studies; and sustainability analysis and planning
- Education:** Master of Urban & Regional Planning, University of California, Irvine
BS with Honors, Ecology & Evolutionary Biology, University of California, Santa Cruz
BA with Honors, Environmental Studies, University of California, Santa Cruz
- Activities:** San Joaquin Valley APCD's GHG Significance Thresholds Working Group; South Coast AQMD, CalEEMod Emissions Inventory Model Beta-Testing; AEP Climate Change Committee



Bob Mantey
Manager, Noise, Vibration & Acoustics

Office(s): Santa Ana
Contact: 714.966.9220 ext. 317 | bmantey@placeworks.com

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- Expertise:** Environmental/community noise modeling, predictive noise analyses, noise impact assessment & documentation, and machinery noise analysis, mitigation, and control
- Experience:** 32 years of managerial and technical experience in applied engineering acoustics and industrial noise control
- Education:** BS, Engineering, Harvey Mudd College, Claremont, California
- Certifications:** Member, Institute of Noise Control Engineering (INCE)
FTA Certification, Transit Noise and Vibration Impact Assessment
TNM 2.5 Training & Certification via HMMH
Engineer-In-Training Certificate, EIT, State of California



Fernando Sotelo, PTP, INCE
Senior Planner, Air Quality & Noise

Office(s): Santa Ana
Contact: 714.966.9220 ext. 314 | fsotelo@placeworks.com

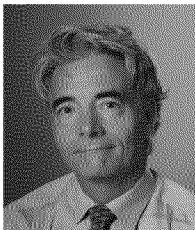
Expertise: Air quality, noise and vibration, GHG, travel demand forecasting and traffic impact analyses rail noise and vibration, CadnaA Software, Aermid, CalEEMod
Experience: 11 years of experience
Education: MS, Transportation Engineering, University of Southern California
BS, Naval Engineering, emphasis in transportation
International Business Certificate, University of California, Irvine



Phillip Brylski, PhD
Senior Biologist

Office(s): Santa Ana
Contact: 714.966.9220 ext. 306 | pbrylski@placeworks.com

Expertise: Biological resources, permitting, CEQA
Experience: 25 years of experience in California biodiversity issues and environmental analysis
Education: PhD, Zoology, University of California, Berkeley
MFS, Forestry, Yale University
BS, Forestry & Resource Management, University of California, Berkeley, 1977
Permits: Surveys for Stephens' kangaroo rat, San Bernardino kangaroo rat, Pacific pocket mouse, and Mohave



WILLIAM C. HASS, PE

Principal, Environmental Science & Engineering

Bill has over 30 years of technical and management experience in the environmental field, including site assessments, hazardous substances and operations audits, invasive site investigations, risk assessments, regulatory analysis, and feasibility studies. He has been the principal investigator for numerous environmental site assessments and operations audits involving extensive site inspections, historical records reviews, aerial photographs reviews, and interviews with knowledgeable personnel. He has special expertise in environmental issues related to real estate transactions and due diligence for property acquisition or divestiture, and has managed remedial action projects of various sizes and complexities. Bill is also a professional engineer with methane gas mitigation design experience for new school, commercial, and residential projects.

Projects that Bill has managed and/or had technical oversight for include the preparation of a RCRA Part B permit application, Exposure Information Report, Potential Release Report, and Hydrogeological Assessment Report for a chemical milling operation in San Bernardino County; the preparation of an agency-responsive Closure Plan/Report of Disposal Site Information and a Solid Waste Assessment Test Proposal for a landfill in Ventura County; and the development of proposed standards and requirements for consideration by the State of Illinois' Environmental Protection Agency to control both explosive gases and/or discharges to ambient air associated with landfills.

HIGHLIGHTS OF EXPERIENCE

SITE INVESTIGATION

- » Former manufacturing facility, design, installation, and ongoing operation of a soil vapor extraction system | South Gate CA
- » Multiuse industrial property (potential commercial development), aerial photograph analyses, groundwater and soil contamination | Glendale CA
- » Soil export and import testing for Palisades Charter High School | Pacific Palisades CA
- » Soil export and import testing for Teaching Center/Friends of Carthay Center School | Los Angeles USD
- » Soil export and import testing for Willenberg Special Education Center | Los Angeles USD
- » Phase I ESA for 901 Abbot Kinney Boulevard | Los Angeles CA
- » Phase I ESA for Heritage Valley Parks | Fillmore CA
- » Phase I ESA for 11976 W. Culver Boulevard | Los Angeles CA
- » Phase I ESA for 699 Old Orchard Drive | Danville CA
- » Various Projects for school districts throughout Southern California

REMEDIATION ENGINEERING DESIGN

- » Inactive manufacturing facility, contamination characterization study and remedial action plan | Upstate New York
- » 46-acre industrial site, regulatory/environmental audit, soil gas characterization survey, soil matrix and groundwater analysis, and remedial action plan | Huntington Beach CA

EDUCATION

- » MPA, Public Policy & Administration, University of Southern California
- » BS, Civil & Environmental Engineering, South Dakota State University

REGISTRATIONS

- » State of California Professional Engineer No. C033772

AFFILIATIONS

- » American Society of Civil Engineers
- » Association of Groundwater Scientists and Engineers
- » Associate of Environmental Professionals

Team member since 1984



- » Methane mitigation system design for new school buildings | San Jacinto USD
- » Methane testing for Terminal Island | Los Angeles County CA
- » Methane testing for 1800 South Robertson Road | Los Angeles CA
- » Similar projects have been conducted at numerous industrial and commercial sites in Los Angeles, Ventura, Riverside, San Diego, and Orange Counties



WILLIAM C. HASS

Principal

whass@placeworks.com



PETER A. GARCIA

Associate Principal

As a key strategist with PlaceWorks, Peter has dual experience in environmental site assessment and remediation, and environmental (CEQA) planning. A highly effective project manager, Peter insists on understanding every aspect of a project to develop practical and effective solutions to environmental problems. Peter has 25 years of experience with Comprehensive Environmental Response Compensation & Liability Act (CERCLA), Resource Conservation & Recovery Act (RCRA), California Environmental Quality Act (CEQA), sensitive land use projects, and brownfield cleanup sites throughout California. He has routinely managed public communications for large projects and is adept at developing risk management and risk communication strategies for sensitive projects.

Peter developed and managed the technical operations of a Cleanup Division for the Department of Toxic Substances Control (DTSC) and was responsible for managing Southern California operations for DTSC's in the counties of Los Angeles, Orange, San Bernardino, Riverside, San Diego, and Imperial. His understanding of scientific principles and the rules and regulations that govern environmental site assessment and remediation and planning, combined with his breadth of project experience, have provided him a wealth of experience for developing solutions for complex sites.

HIGHLIGHTS OF EXPERIENCE

PUBLIC INVOLVEMENT, RISK ASSESSMENT & COMMUNICATION, AND ENVIRONMENTAL JUSTICE

- » Suva Elementary School Public Participation Program | Bell Gardens CA
- » Park Avenue Elementary School Public Participation Program | Cudahy CA
- » Wyle Laboratories Public Participation Program and Community Advisory Group | Norco CA
- » Montrose Chemical/Del Amo Site Community Advisory Group | Harbor Gateway in Los Angeles CA
- » Noah Webster Elementary School Public Participation Program | San Diego CA
- » Gratts Learning Academy Public Participation Program | Los Angeles CA
- » Laguna Nueva School Public Participation Program | Commerce CA
- » Santee Education Complex Public Participation Program | Los Angeles CA
- » Towne Avenue Elementary School Public Participation Program | Carson CA
- » Terminix Site | San Bernardino CA

RCRA CORRECTIVE ACTION AND COMPLIANCE

- » Chemwest Industries Corrective Action Management | Fontana CA
- » Former EECO, Inc. Corrective Action | Santa Ana, CA
- » Roehl Disposal Services RCRA Enforcement | Wilmington CA
- » Pepper Oil Company RCRA Enforcement | National City CA
- » Pacific Treatment Corp RCRA Enforcement | San Diego CA
- » Arco Petroleum Products Company RCRA Enforcement | Wilmington CA

EDUCATION

- » BS, Biology, Loyola Marymount University

AFFILIATIONS

- » Association of Environmental Professionals
- » Association for Environmental Health and Sciences
- » Coalition for Adequate School Housing

Team member since 2006





PETER A. GARCIA

Associate Principal

pgarcia@placeworks.com

BROWNFIELDS AND FEDERAL SUPERFUND SITE REMEDIATION

- » Former Kaiser Steel Mill Remediation | Fontana CA
- » Newmark Groundwater Contamination | San Bernardino CA
- » Crafton-Redlands Groundwater Contamination | Redlands CA
- » Palos Verdes Shelf Marine Sediment Contamination | Palos Verdes Coast CA
- » Gardena Sumps Oil Waste Pits Contamination | Gardena CA

SITE INVESTIGATION, REMEDIATION, AND LAND USE

COMPATIBILITY

- » Industrial/Residential Land Use Compatibility Studies (Various) | Irvine CA
- » Third Party Review of Site Assessment and Remediation Documents | Various
- » Mines and Maple Development Site Remediation and Closure | Montebello CA
- » Pardee Homes Methane Remediation | Solana Beach CA
- » Santa Fe Springs Athletic Fields Methane Gas Collection System | Santa Fe Springs, CA
- » Scripps Ranch Middle School Site Assessment | San Diego CA
- » Sand Canyon Mixed Use Medical Office Project | Irvine CA
- » Suva Middle Elementary and Middle School Multimedia Air, Water, Soil Investigation | Bell Gardens CA
- » Paramount High School PEA | Paramount CA
- » Third-Party Review of Radiological Assessment Activities for Former ICN Facility | Irvine CA

ENVIRONMENTAL IMPACT REPORTS AND CEQA COMPLIANCE

- » Irvine Business Complex Program EIR | Irvine CA
- » Hyatt Regency EIR | Newport Beach CA
- » Planning Areas 18 and 39 Program EIR | Irvine CA
- » 16901 Jamboree Residential Project EIR | Irvine CA
- » Greenspot Village & Marketplace Specific Plan EIR | Highland CA
- » Mt. San Jacinto Community College District Facility Master Plan EIR | Banning CA

ARTICLES AND PUBLICATIONS

- » "Taking Charge of Site Assessment," CASH Register, July 2008

SPEAKING ENGAGEMENTS

- » "Efficiently Meeting Title 5 Requirements for Modernizing/Addition Projects" | 2011 CASH Conference, Sacramento

AWARDS

- » Congressional Recognition, US House of Representatives, 2002
- » DTSC Team Accomplishment Award, 2001
- » DTSC Team Accomplishment Award, 2000
- » California EPA, Customer Service Award, 1999
- » State of California Superior Accomplishment Award, 1997
- » DTSC Outstanding Technical Accomplishment Award, 1994
- » City of San Bernardino Board of Water Commissioners Commendation



PETER a. GaRCIa

asociado Principal

Como un estrategista clave con el Equipo de Evaluación del Sitio de PlaceWorks, Peter tiene la doble experiencia tanto en la evaluación ambiental y remediación del sitio, y planeación ambiental. Como un director de proyecto sumamente efectivo, él insiste en comprender cada aspecto de un proyecto para desarrollar enfoques prácticos y efectivos para la evaluación ambiental y limpieza. Peter tiene más de 26 años de experiencia con el Acta de La Respuesta de Compensación Ambiental Completa y de Obligación, el Acta de Conservación de Recursos y Recuperación, el Acta de la Calidad del Medio Ambiente de California (CEQA, por sus siglas en inglés), sitios de brownfield, y proyectos de usos sensibles de la tierra a través de California. Ha logrado rutinariamente dirigir comunicaciones públicas para proyectos grandes, y es adepto en el desarrollo de estrategias para la gestión de riesgos y de comunicación de riesgos para las comunidades que involucran temas de justicia ambiental.

Peter desarrolló y administro las operaciones técnicas de la División de Evaluación y Limpieza de Escuelas del Departamento de Control de Sustancias Tóxicas (DTSC por sus siglas en inglés), y fue responsable de administrar las operaciones en el sur de California para la División de Escuelas de DTSC en los condados de Los Angeles, Orange, San Bernardino, Riverside, San Diego, e Imperial. Su comprensión de principios científicos y las reglas y regulaciones que gobiernan la evaluación ambiental y limpieza del sitio, combinado con su amplia experiencia con proyectos, le ha dado experiencia en abundancia para desarrollar soluciones para sitios complejos.

Además de sus capacidades solidas de administrar proyectos, Peter ha compartido su conocimiento técnico con el paso de los años como un instructor de entrenamiento. Ha entrenado el personal y a otros profesionales en una variedad de sujetos, inclusive la evaluación y limpieza de sitios, administración de materias peligrosas, las prácticas de la sanidad y seguridad del medio ambiente, y administración de proyectos. Como parte de un programa de intercambio técnico internacional entre EEUU y México, Peter participó como un entrenador a federales y funcionarios mexicanos de La Secretaría de Desarrollo Urbano Y Ecología, y La Jefatura de Los Servicios Coordinados de Salud Publica en Baja California, respectivamente.

PUNtOS CULMINANtes DE ExPErIENCIA

PaRticipación PÚBLica, EvaLUación DE RIESgos/ cOMUnicación y JUSTicia aMBIEntaL

- » Programa de Participación Pública, Escuela Primaria Suva | Bell Gardens CA
- » Programa de Participación Pública, Escuela Primaria Park Avenue | Cudahy CA
- » Wyle Laboratorios Programa de Participación Pública y el Grupo Asesor de la Comunidad | Norco CA
- » Montrose Química/Del Amo Grupo Asesor de la Comunidad | Harbor Gateway CA
- » Programa de Participación Pública, Escuela Primaria Noah Webster | San Diego CA
- » Programa de Participación Pública, Gratts Learning Academy | Los Ángeles CA
- » Programa de Participación Pública, Escuela Laguna Nueva | Commerce CA
- » Programa de Participación Pública, Complejo Educativo Santee | Los Ángeles CA
- » Programa de Participación Pública, Escuela Primaria Towne Avenue | Carson CA
- » Sitio Terminix | San Bernardino CA

EDUCACIÓN

- » BS, Biología, Universidad de Loyola Marymount, 1989

AFILIACIONES

- » Asociación de Profesionales del Medio Ambiente
- » Asociación para la Salud y Ciencias Ambientales
- » Coalición Para Viviendas Escolares Adecuadas

MIEMBRO DEL EQUIPO DESDE 2006





PETER a. GaRCIA

Asociado Principal

pgarcia@placeworks.com

RcRa acción CORRECTiva y cUMPLIMIEntO

- » Chemwest Industrias Gestión de Acción Correctivo | Fontana, CA
- » El Previo EECO, Inc. Acción Correctiva | Santa Ana CA
- » ROEHL Servicios de Desecho RCRA Ejecución | Wilmington CA
- » Compañía de Petrolío Pepper RCRA Ejecución | National City CA
- » Corp. de Tratamiento Pacific RCRA Ejecución | San Diego CA
- » Compañía de Productos de Pretolio Arco RCRA Ejecución | Wilmington CA

BROWnFIELDs y REMEDIación DE SITIO SUPERfUND FEDERaL

- » El Previo Kaiser Steel Mill Remediación | Fontana CA
- » Newmark Contaminación Subterránea | San Bernardino CA
- » Crafton-Redlands Contaminación Subterránea | Redlands CA
- » Palos Verdes Contaminación de Sedimentos de Shelf Marina | Palos Verdes Costa CA
- » Gardena Sumps Contaminación | Gardena CA

InvEstIgación DEL SITIO, REMEDIación y cOMPAtIBILIDaD DEL USO DEL SUELO

- » Industrial / Estudios de la Compatibilidad del uso del suelo para Residencias (Varios) | Irvine CA
- » Revisión de Tercer Partido de la Evaluación del Sitio y Documentos de Remediación | Varios
- » Sitio de Desarrollo Mines and Maple Remediación del sitio y Cierre | Montebello CA
- » Pardee Homes Remediación de Metano | Solana Beach CA
- » Santa Fe Springs Campo Atlético Sistema de Colección del Gas Metano | Santa Fe Springs CA
- » Evaluación de Sitio de la Escuela Secundaria Scrips Ranch | San Diego CA
- » Sand Canyon Proyecto de Consultorio Médico Uso Mixto | Irvine CA
- » Escuela Primaria y Secundaria Suva Investigación de Aire Multimedia, Agua, y Suelo | Bell Gardens CA
- » PEA para la Escuela Preparatoria Paramount | Paramount CA
- » Revisión de Tercer Partido de la Evaluación de Actividades Radiológicas para la Previa Instalación ICN | Irvine CA

INFORMES DE IMPActO aMBIEntaL y cUMPLIMIEntO DE cEQa

- » Complejo de Negocios Irvine EIR Programático | Irvine CA
- » Hyatt Regency EIR | Newport Beach CA
- » Áreas de Planeación 18 y 39 EIR Programático | Irvine CA
- » 16901 Jamboree Proyecto Residencial EIR | Irvine CA
- » Plan Específico de Greenspot Village & Marketplace EIR | Highland CA
- » Plan Maestro de Instalaciones del Distrito del Colegio Comunitario Mt. San Jacinto EIR | Banning CA

PREMIOS

- » Premio de Logro de Equipo de DTSC, 2001
- » Premio de Logro de Equipo de DTSC, 2000
- » EPA de California, Premio de Servicio de Atención al Cliente, 1999
- » Premio de Logro Superior del Estado de California, 1997
- » Premio de Logro Técnico Sobresaliente, 1994



DENISE CLENDENING, PhD

Associate Principal, Site Assessment Services

Denise has over 27 years of experience providing technical oversight and performing human health risk assessments, site assessments, and investigations of chemical waste at multiple sites including Resource Conservation & Recovery Act (RCRA) and Superfund sites. She is adept at applying alternatives that are economical yet protective of human health and the environment. She conducts realistic assessments and calculates target cleanup levels based on site-specific exposure scenarios. Her work has involved pesticides, heavy metals, solvents, and petroleum-contaminated soils. She assists multiple school districts in California with site assessment, public relations, and the Department of Toxic Substance Control (DTSC) school site approval process. She participates in public hearings and school board meetings and coordinates her projects with the CEQA process.

Before joining PlaceWorks, Denise managed large divestiture environmental due diligence projects for the electric power industry and was involved in numerous environmental projects for oil field operation. Her experience also includes the development and testing of risk assessment software and teaching training courses in risk assessment using different software programs.

Denise has established a very good reputation with regulatory agencies and negotiates risk-related issues on behalf of her clients. She is a member of the Los Angeles Regional Water Quality Control Board Underground Storage Tank Advisory Board and has extensive experience with site closure activities with the DTSC, Environmental Protection Agency, Regional Water Quality Control Boards, and local oversight agencies throughout California.

HIGHLIGHTS OF EXPERIENCE

ENVIRONMENTAL & HEALTH RISK ASSESSMENTS

- » Xerox Corporation Preliminary Environmental Assessment and Health Risk Assessment | Santa Ana CA
- » Human Health Risk Evaluation, Literature Research for American Petroleum Institute
- » City of Redlands Health Risk Assessment | Redlands CA
- » Caltrans Risk Assessment and Groundwater Impact Analysis | California
- » Risk Assessments and Indoor Air Sampling for Confidential Client(s) | Various Locations
- » Human Health & Ecological Risk Assessment – Technical Review | Various Locations
- » Landfill Risk Assessments | Various Locations
- » Risk Assessments for Pesticide Contaminated Soil | Various Locations
- » Human Health Risk Assessment for Confidential Mineral Resources Client | Arizona
- » Human Health Risk Assessment at Whites Point Nike Missile Site | Los Angeles County CA
- » Human Health Risk Assessment at Fort MacArthur | Los Angeles County CA

EDUCATION

- » PhD, Soil Physics, University of California, Riverside
- » MS, Soil Science, University of California, Riverside
- » BS, Geology, University of California, Riverside

CERTIFICATIONS

- » Oil Spill Response Training

AFFILIATIONS

- » Soil Science Society of America
- » American Geophysical Union
- » American Chemical Society
- » Society of Risk Analysis
- » Coalition of Adequate School Housing

Team member since 2005





DENISE CLENDENING

Associate Principal

dclendening@placeworks.com

SITE ASSESSMENTS

- » Site Remediation for Hull Middle School | Torrance CA
- » PEA for New High School, William S. Hart UHSD | Castaic CA
- » Phase I for Property at East Briar Drive | San Bernardino County CA
- » PEA for Stella Academy Middle School | Los Angeles CA
- » Phase I for Valley Boulevard Widening | City of Industry CA
- » Oil Field Preliminary Environmental Assessment | Culver City CA
- » Lead-Based Paint Evaluations | Various Locations
- » Cogeneration Facilities Permit Applications | Various Locations throughout California
- » NRG Energy Environmental Due Diligence Investigations | California
- » AES Environmental Due Diligence Work Plans | California
- » Remedial Investigation and Remedial Action for Jersey Avenue Elementary School Site (Congresswomen Grace Napolitano presented award for special congressional recognition for project), Little Lake City School District | City of Santa Fe Springs CA
- » Preliminary Environmental Assessments for over 100 school sites throughout California
- » Phase I ESA and PEAs for four school sites, Moreno Valley USD
- » Phase I ESAs, PEAs, SSIs and RAWs for eight school sites, San Bernardino County Superintendent of Schools
- » Phase I ESA for Elementary School No. 19, Rialto USD
- » PEA and SSI for the New High School No. 3 Site, Colton Joint USD
- » Phase I ESA and PEAs for four school sites, Lynwood USD
- » Phase I ESA for the Proposed Elementary School No. 8, San Ysidro School District
- » Phase I ESA for the Proposed K–8 Parker Dam School, Needles USD
- » PEAs for three school sites and environmental and legislative support services, Santa Ana USD
- » Phase I ESA, PSHA, and PEA for Community Day School, Eastside USD
- » PEAs for five school sites in Clovis | Clovis CA
- » PEA for redevelopment project for the City of South Gate | South Gate CA
- » Phase I ESA for Arrowhead Springs Resort I | San Bernardino CA
- » Phase I ESA for two Charter Schools for Green Dot Public Schools | Los Angeles CA
- » Phase I and Phase II ESA for Former Service Station | Los Angeles CA
- » Phase I ESAs, PEA, SSIs, and fill testing for multiple school sites, Pomona USD
- » PEA and methane gas testing, Encinitas USD
- » Phase I ESA and lead testing for multiple sites, Fontana USD
- » Proponent's Environmental Assessment for PUC | Long Beach CA
- » Initial Site Assessments for Street Widening Projects | Santa Ana CA
- » Phase I ESAs for Renaissance Community Fund | Corona CA

TITLE 5/CDE RISK ASSESSMENTS

- » Geohazard Assessment for Inglewood Site, Today's Fresh Start Charter School
- » PEAs and Title 5 Assessments for three school sites, Redlands USD
- » Title 5 Compliance Study Reports for four sites, Whittier Union High School District
- » Prairie Vista Lead Testing, Hawthorne USD
- » Environmental Support and Risk Assessment for school sites, San Dieguito Union High School District
- » Human Health Risk Assessment School Site, Pomona USD
- » Title 5 Hazard and Constraints Analysis for four school sites, Irvine USD
- » Title 5 Hazard and Constraints Analysis for school site, Rialto USD



CATHLEEN M. FITZGERALD, DEnv, PE, QSD/QSP

Senior Engineer

Cathy has nearly 30 years of academic and professional experience in the areas of hydrology studies, health risk assessments, safety hazard assessments, air quality studies, hazardous waste investigations, remedial action plans, and installation of groundwater and soil vapor extraction systems. She has worked with various public and private sector clients in the United States, Japan, Taiwan, and Korea on licensing and environmental assessments for nuclear and fossil fuel power plants, hazards associated with solar thermal power projects, and the development of alternative energy sources. In addition, she has worked on numerous water projects in Africa, South America, and Central America.

Cathy conducts baseline health risk assessments, develops site-specific soil cleanup levels, uses vadose zone modeling to evaluate the potential threat to groundwater from soil contaminants, conducts groundwater modeling to evaluate natural attenuation of chemical plumes, and develops innovative groundwater remediation systems. In addition, she has prepared air quality and hydrology sections for numerous CEQA documents. Cathy is a Registered Professional Engineer in the states of California and Nevada, a Qualified SWPPP Developer/Practitioner in the State of California, and a Certified Environmental Manager in the State of Nevada.

HIGHLIGHTS OF EXPERIENCE

REGULATORY COMPLIANCE, AIR QUALITY PERMITTING, AND HEALTH RISK ASSESSMENTS

- » Construction Risk Assessment for Breuner Marsh Restoration | Richmond CA
- » West Roseville High School Health Risk Assessment | Roseville CA
- » Permit Acquisition and Compliance Evaluation for Cogeneration and Waste-to-Energy Projects | Bechtel Power Corporation
- » Licensing and Permitting Acquisition for Nuclear and Fossil Fuel Power Plants in the United States and International Clients | Bechtel Power Corporation
- » South Coast AQMD Permit to Construct/Permit to Operate Application for Chemical Fixation of Hyperion Treatment Plant Sludge | Submitted to SCAQMD
- » Numerous Air Emission Risk Assessments | Los Angeles Unified School District
- » Air Toxics Health Risk Assessment | Irvine CA
- » Irvine Technology Center Health Risk Assessment | Irvine CA
- » Air Emissions/Risk Assessment, Puente Hills Intermodal Facility EIR | Industry CA

HAZARD SAFETY ASSESSMENTS

- » Palo Alto USD Pipeline Safety Hazard Assessment | Palo Alto CA
- » 5th Street Alternative School Rail Safety Study | Redwood City CA
- » Numerous Pipeline Safety Hazard Assessments | Los Angeles USD
- » Rail Safety Study, Fresno El Paseo EIR | Fresno CA
- » Ramona Elementary School CNG and Propane Risk Assessment | Moreno Valley USD
- » Former ordnance facility, soil cleanup (for explosives) and screening level health risk assessment | Chino Hills CA
- » Rail Safety Study, John Glenn High School | Norwalk-La Mirada USD

EDUCATION

- » DEnv, Environmental Science & Engineering, University of California, Los Angeles
- » MA, Marine Biology, University of California, Santa Barbara
- » BA, Biology, University of California, Los Angeles

REGISTRATIONS

- » State of California Professional Engineer No. 39541
- » State of Nevada Professional Engineer No. 10715
- » Registered Hazardous Substances Professional
- » State of California Qualified SWPPP Developer/Practitioner No. 20222

CERTIFICATIONS

- » State of Nevada Certified Environmental Manager

AFFILIATIONS

- » Air Pollution Control Hearing Board, Washoe County, Nevada

Team member since 1986





CATHLEEN FITZGERALD

Senior Engineer

c f i tgerald@placeworks.com

SITE INVESTIGATION

- » Phase I ESAs and field investigations at numerous commercial and industrial sites | Reno and Sparks NV
- » Water Quality Management Plan, Mixed Use Development Project | Huntington Park CA
- » Hydrology Calculations and Report, Flying M Ranch | Long Beach CA
- » Hydrology Report | San Marcos USD
- » Vadose zone and groundwater modeling to support closure of a former UST site | Lancaster CA
- » Soil vapor extraction pilot test | Huntington Park CA
- » Vacuum-enhanced recovery pilot test | Los Angeles CA
- » Former oil field site, development of risk-based cleanup levels | Bakersfield CA
- » Site removal action, excavation and disposal of lead-impacted soil | Commerce CA
- » Former dry-cleaning facility, vapor intrusion modeling | Northridge CA

CEQA/NEPA ENVIRONMENTAL SERVICES

- » State Superfund Site Third-Party Review of field investigations, removal actions, and groundwater remediation activities | Nevada
- » Walltown Quarry, Air Quality Impact Analysis EIR Review | Sacramento CA
- » Puente Hills Intermodal Facility EIR | Industry CA
- » Citrus Heritage Middle School IS/MND | Riverside USD
- » AZ Winter Mesa Towing Site Subdivision EIR, Hydrology Section | Malibu CA
- » Crummer Site Subdivision EIR | Malibu CA

HYDROLOGY STUDIES AND NPDES PERMITTING

- » Storm Water Pollution Prevention Plan (SWPPP) | Mission Viejo, CA
- » Water Quality Management Plan, Mixed-Use Development Project | Huntington Park CA
- » Storm Water Management Plan and Drainage Study | Rancho Santa Fe CA
- » Hydrology Calculations and Report, Flying M Ranch | Long Beach CA
- » Hydrology Study | San Marcos USD
- » AZ Winter Mesa Towing Site Subdivision EIR, Hydrology Section | Malibu CA
- » Third Party Review Santiago Creek Study | City of Orange, CA
- » NPDES Permit Wastewater Discharge, Clairol Facility | Camarillo CA
- » Report of Waste Discharge, Rancho Seco Nuclear Power Plant | Sacramento Municipal Utility District

ARTICLES & PUBLICATIONS

- » *A Practical Guide to Environmental Risk: Perception, Assessment, Communication*, The Planning Center, 2009

SPEAKING ENGAGEMENTS

- » "CEQA Responsibilities in Assessing and Managing Risk from Alternative VOC Compounds" | South Coast Air Quality Management District Symposium, October 2014 | Diamond Bar CA
- » "Health Risk Challenges of Siting Housing Near High Volume Roadways" | 2014 APA State Conference | Anaheim CA
- » "Air Quality for Dummies" | 2014 AEP State Conference | Huntington Beach CA
- » "Health Risk Challenges of Siting Housing Near High Volume Roadways" | 2014 AEP State Conference | Huntington Beach CA
- » "Near Roadway Mitigation Measures" | South Coast Air Quality Management District Symposium, November 2013 | Diamond Bar CA
- » Guest Lecturer | "A Practical Guide for Obtaining Environmental Clearance for New & Expanding School Sites," Educational Facilities Certificate Program | UC Riverside Extension
- » "Environmental Protection or Smart Growth? Conflicts between Infill Development and Local Environmental Regulation" | 2006 AEP State Conference | Newport Beach CA



STUART R. MICHENER, PG

Senior Geologist

Stuart's credentials include more than 30 years of expertise in environmental science, including due diligence for property transactions, environmental site assessments, soil and groundwater cleanups, and regulatory negotiations. These services were provided to a wide range of clients, such as municipal government agencies, public utilities, school districts, prominent law firms, the Department of Defense, and numerous Fortune 500 firms. In addition, Stuart has successfully managed several high-profile projects that have warranted television news coverage and front-page newspaper articles, such as City-sponsored brownfield redevelopments in south-central Los Angeles and a fast-track PCB assessment and cleanup project in a mixed-use development in the City of Gardena. He has also planned, implemented, and managed numerous site assessment and/or soil and groundwater remediation projects for other local public-sector clients, such as the Los Angeles County Department of Public Works Architectural Engineering Division and Construction Division, City of Los Angeles Community Redevelopment Agency, the Port of Los Angeles, and the Housing Authority and Community Development Commission of the County of Los Angeles.

HIGHLIGHTS OF EXPERIENCE

SITE INVESTIGATION

- » Proposed Slauson-Central Retail Plaza, site assessment and remediation support, Los Angeles CRA | Los Angeles CA
- » Proposed North Hollywood New E.S. No. 3 PEA | Los Angeles USD
- » Fontana Steel PEA and site closure, SMI-Texas, Inc. | Rancho Cucamonga CA
- » Groundwater monitoring for Former Sargent Industries Facility | Huntington Park CA
- » Southeast Learning Center Stormwater Management and Control | Los Angeles USD
- » Various county-owned jails and sheriff's stations, leaking underground storage tank assessment and remedial planning | Los Angeles County CA
- » Former Camp Elliott, archives search report for unexploded ordnance, US Army Corps: Huntsville Division | San Diego CA

REMEDIATION PLANNING AND IMPLEMENTATION

- » Proposed childcare center, remediation of lead-contaminated soil, County of Los Angeles CDC | Lynwood CA
- » US Air Force Center for Environmental Excellence, installation-wide remedial process optimization, George AFB | Victorville CA
- » Former manufacturing facility assessment and remediation of hexavalent chromium- and VOC-impacted soil and groundwater, Honeywell International, Inc. | San Fernando Valley
- » Bio-Sparge remediation of hydrocarbon-impacted groundwater, Fleetwood Industries, Inc. | Riverside CA
- » Torrance Tank Farm, remedial investigation/feasibility study and emergency response support | Torrance CA
- » Former Sargent Industries, remedial investigation/feasibility study and soil vapor extraction HVOC remediation, Dover Diversified, Inc. | Huntington Park CA

EDUCATION

- » MS, Geology, University of Massachusetts, Amherst
- » BA, Environmental Studies, Colby College
- » Graduate coursework in Hydrogeology, Waste Management Program, Colorado School of Mines, Golden

LICENSES

- » California Professional Geologist No. 6145

AFFILIATIONS

- » Association of Engineering Geologists, Southern California Section, former Editor
- » Groundwater Resources Association

Team member since 2004





STUART R. MICHENER

Senior Geologist

smichener@placeworks.com

- » Central Region High School 13, remediation planning and implementation, VOC-impacted soil and groundwater | Los Angeles USD
- » Central Region Elementary School 20, remediation planning and implementation, soil and groundwater VOC source attribution, cost allocation and cost-recovery litigation support | Los Angeles USD
- » Neville Chemical Company, remedial design and implementation (groundwater pump & treat) | Santa Fe Springs CA
- » Berths 142–143, remedial investigation/feasibility study, aquifer testing, Port of Los Angeles | San Pedro CA
- » Hynes Tank Farm, remedial investigation/feasibility study, ARCO Environmental Remediation Group | Long Beach CA
- » Los Angeles Data Center Tank Remediation Program, groundwater remediation and monitoring, Bank of America | Los Angeles CA
- » Raymond Villa Fundamental School, monitoring and RCRA closure for VOC-impacted groundwater, quantitative Monitored Natural Attenuation evaluation | Santa Ana USD

REGULATORY COMPLIANCE & STRATEGIC PLANNING

- » Environmental compliance audit of city-owned facilities, testing/repair of UST systems, and updated business response plans | King City CA
- » Districtwide audit of environmental, health, and safety functions | San Diego USD

PUBLICATIONS

- » Davis, T. W., S. R. Michener, T. J. Dolan, and R. R. Cavagrotti. 1999. An integrated approach to the characterization and remediation of gasoline in a fractured, sedimentary bedrock setting. *In Proceedings of the 1999 Petroleum Hydrocarbons and Organic Chemicals in Ground Water Conference and Exposition* API and NGWA, Houston, Texas.
- » E. Clark Boli, S. R. Michener, and A. J. Bennett. 2001. Remote sensing for the visual and quantitative characterization of petroleum hydrocarbon releases to selected substrates/surfaces. Annual Conference of the American Society of Photogrammetry and Remote Sensing, St. Louis, Missouri.
- » Michener, S. R. 1983. Bedrock geology of the Pelham-Shutesbury Syncline, Pelham dome, west-central Massachusetts. University of Massachusetts Publications Series, Contribution No. 43, 101 p.

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